

Title (en)

ELECTRONIC DIMMABLE BALLAST FOR HIGH INTENSITY DISCHARGE LAMP

Title (de)

ELEKTRONISCH DIMMBARE BALLASTSCHALTUNG FÜR EINE HOCHINTENSITÄTSENTLADUNGSLAMPE

Title (fr)

BALLAST ELECTRONIQUE GRDUABLE POUR LAMPE A DECHARGE HAUTE INTENSITE

Publication

EP 1370917 B1 20080305 (EN)

Application

EP 02723577 A 20020322

Priority

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- US 27763601 P 20010322
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Abstract (en)

[origin: WO02077739A1] A dimmable electronic ballast for an HID lamp (50) includes a rectifier stage for rectifying an AC input (10) and providing a rectified DC output (14), a power factor (20) correction stage for modifying a power factor of the AC input and for providing an increased voltage DC output from the rectified DC output, an electronic ballast control circuit (80) for providing a driving signal comprising a pulse train for controlling a switching operation of an output switch stage (940) driving the HID lamp; the output switch stage (40) having at least one electronic switching element coupled to the increased voltage DC output for providing a pulsed power signal to the HID lamp to power the lamp (50), the electronic ballast control circuit (80) having a feedback input comprising a signal related to the power dissipated by the HID lamp for maintaining the power at a desired level, the desired level being set by a dimming control input (82) to the electronic ballast control circuit (80). The circuit provides high frequency power, typically above 50 kHz, to the HID lamp (50).

IPC 8 full level

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